

Getting Started

This chapter introduces the notebook and gives first-time operating instructions.

1.1 Overview

Thank you for purchasing this notebook computer. Whether you're an enthusiastic beginner or a power user, this notebook has it all. On the road, at the office, or in the comfort of your home, this notebook is the ideal computing companion for all your personal and business needs.

This notebook supports high-end Pentium™ processors, packing the power of a desktop PC into a slim and lightweight notebook. Combining performance, versatility, and a host of advanced power-management features, it helps you work with unmatched productivity and ease.

The easy-to-open modular housing design makes system upgrades easy. The innovative use of latches, grooves, and sliding compartments makes it easy to upgrade the memory and hard disk. The hard disk, keyboard and battery pack are easy to install and remove, thanks to the unique housing.

An ergonomic design feature includes a palm rest located below the full-size keyboard that provides typing comfort in any work environment. The touchpad, centrally located in the palm rest, responds to precise finger movements, making it easy to control cursor movement under graphical user environments like Windows.

This system supports plug-and-play PCMCIA technology with a built-in type III slot that allows the simultaneous use of two type II or one type III PC card. The PCMCIA interface allows you to use credit-card-sized fax/data modem cards, SRAM cards, 1.8-inch removable hard disks, audio cards, SCSI interface cards and other devices. Thus, you enjoy benefits similar to those of add-on cards in desktop PCs.

Another important feature is the high-performance graphics display using a graphics accelerator and 1MB video RAM. This notebook supports a large DualScan STN color or TFT color LCD, offering excellent display quality and brilliant colors. This notebook can also connect to an external ultra-VGA monitor. You can even connect an LCD projection panel for large-audience presentations. Both DSTN and TFT color models support simultaneous VGA display on the LCD and external video device.

Advanced power management features such as automatic LCD and hard disk power-down, system standby and suspend modes enable this notebook to conserve battery power. The notebook houses an easily-available Duracell-standard battery pack. It has an audible battery-low warning feature that reminds you to recharge your battery. The battery is recharged while the notebook is in use with the AC adapter. You can fast charge the battery by powering off the notebook.

This notebook also supports a PCI local-bus architecture to enhance system performance. Onboard 16-bit stereo audio is an option.

All of these exciting features are packed into a compact notebook, integrating a modular design philosophy which means upgradeability, flexibility and portability. Read on to find out more about your new computing companion.

1.2 Item Checklist

Remove all items from the carton and save the packing materials for future use. If any of the following items are missing or damaged, contact your dealer immediately.

- The notebook computer
- AC adapter (includes power cord)
- Battery pack (Duracell-standard)
- Documentation

Optional accessories¹ available include:

- 4-/8-/16-MB RAM modules (standard and EDO)
- External numeric keypad
- Bundled application software documentation
- System utilities diskettes²
- PCMCIA fax/data modem card
- External battery charger/discharger
- Additional battery pack
- Additional AC adapter
- File transfer (interlink) cable

¹ Optional accessories may differ from area to area.

² Refer to the README files of the system utilities in their respective subdirectories for information.

1.3 LCD Display

This notebook supports four different LCD display configurations¹ as shown in Table 1-1.

Table 1-1 LCD Display Configurations

Type	Size	Resolution
DualScan STN color (passive matrix)	10.4-inch	640 x 480, 64K colors, VGA
DualScan STN color (passive matrix)	10.4-inch	800 x 600, 256 colors, SVGA
TFT color (active matrix)	10.4-inch	640 x 480, 64K colors, VGA
TFT color (active matrix)	10.4-inch	800 x 600, 256 colors, SVGA

Open the display by sliding the cover latch to the right as shown in Figure 1-1. Lift the display and tilt it to a comfortable viewing position.

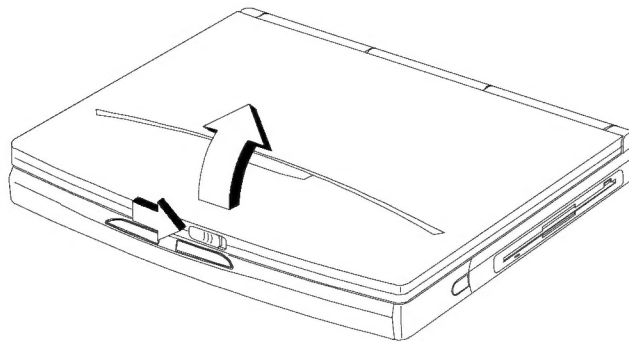


Figure 1-1 Opening the Display

¹ LCD display configurations may differ from area to area.

A microswitch, located near the LCD hinge, detects the opening and closing of the LCD display. The LCD backlight goes off when you close the display without turning off the system power. Reopening the display turns on the backlight again.

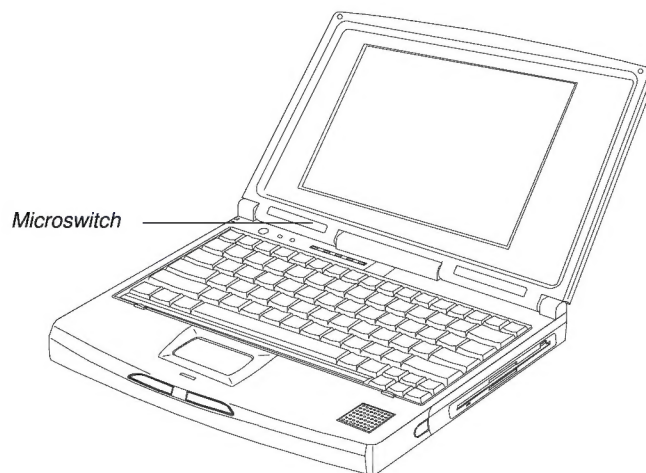


Figure 1-2 The LCD Display

To close the display, fold it down gently until the cover latch clicks into place.



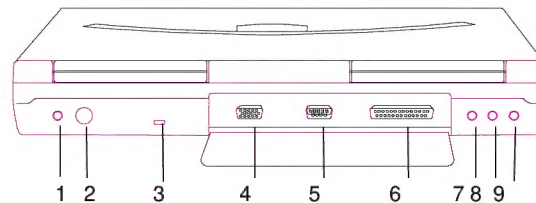
To avoid damaging the display, do not slam it when closing. Do not place any object on top of the notebook when the display is closed.



The LCD power-saving feature turns off the LCD after a preset period of inactivity to reduce power consumption. See section 2.4.1 for details.

1.4 Rear Panel

The peripheral connectors are located in the rear panel as shown in Figure 1-3. Open the port cover to access the CRT, parallel and serial ports. Other ports include the audio (if it is equipped), external PS/2 and DC-in ports.



- | | | | |
|---|--------------------|---|---------------------------------|
| 1 | DC-in port | 6 | Parallel port |
| 2 | External PS/2 port | 7 | Line-in port ¹ |
| 3 | Security notch | 8 | Microphone-in port ¹ |
| 4 | External CRT port | 9 | Line-out port ¹ |
| 5 | Serial port | | |

Figure 1-3 Rear Panel

Rear Panel Features

-  **DC-in port** This connects the AC adapter.
-  **External PS/2 port** This connects an external PS/2-type keyboard, keypad, mouse or trackball.
-  **Security notch** This connects a computer security lock system.
-  **External CRT port** This connects an external monitor.
-  **Serial port** This connects a mouse, modem, scanner, or other serial device.
-  **Parallel port** This connects a printer, pocket LAN, or other

¹ These ports are present if the notebook is equipped with onboard audio.

parallel device.

The following are optional ports:



Line-in port This connects to the audio line-out port of an audio line-in device like a CD player, stereo walkman or synthesizer.



Microphone in port This connects a microphone (3.5mm mini-jack).

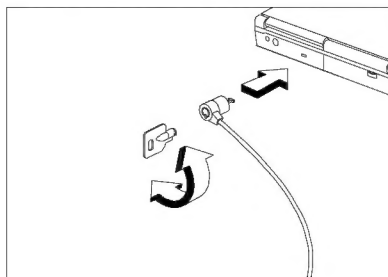


Line-out port This connects headphones or amplified speakers.

See Chapter 3 for details on how to connect external devices.

Security Notch

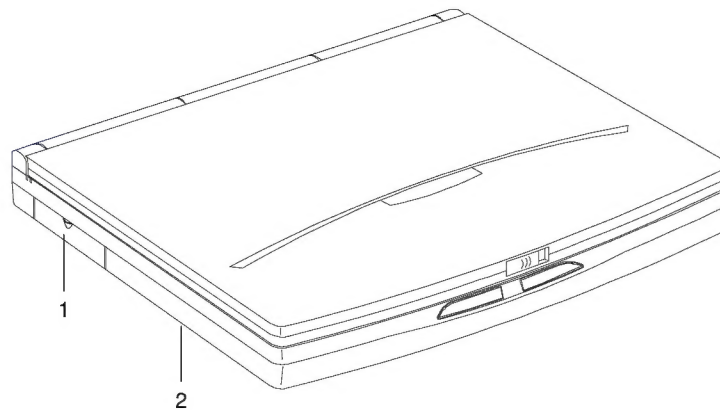
The notebook's security notch lets you physically secure the computer.



Circle a computer security lock cable around an immovable object such as a table or drawer handle. Insert the lock into the notch and turn the key to secure the lock.

1.5 Left Panel

The left panel has a PCMCIA Type III slot and removable hard disk drive.

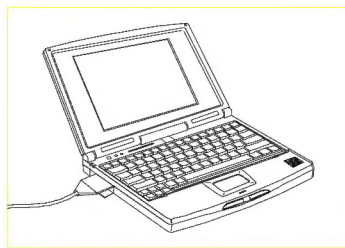


- 1 PCMCIA Type III slot
- 2 Removable hard disk drive (underside)

Figure 1-4 Left Panel

Left Panel Features

PCMCIA



PCMCIA support enables you to use credit-card-sized PC cards similar to add-on cards for desktop computers, thus enhancing the usability and expandability of this notebook. In this slot, you can insert one type III or two type I/II card.

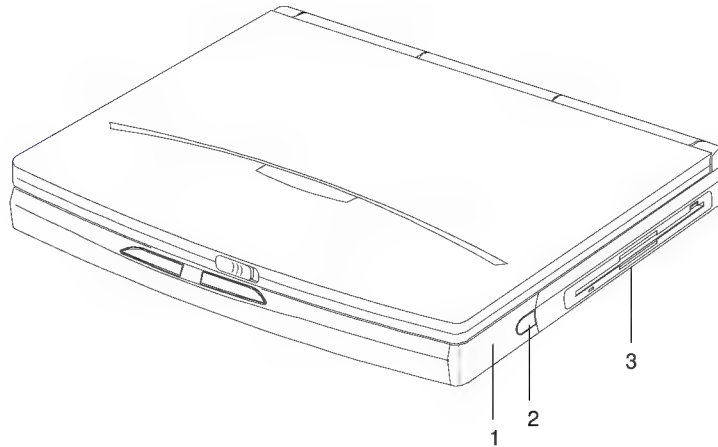
The system supports PCMCIA cards such as fax/data modem, LAN, audio, SCSI cards and ATA drives. Memory cards include flash memory and SRAM. Before using the slot, you need to load the PCMCIA driver which initializes and prepares the slots for use. Refer to the PCMCIA driver utility information in Appendix D for more details.

Removable Hard Disk Drive

The notebook supports a high-capacity, 12.5mm-high, 2.5-inch hard disk drive that is easy to upgrade. See section 3.2 for details.

1.6 Right Panel

The battery and internal diskette drive are located in the right panel.



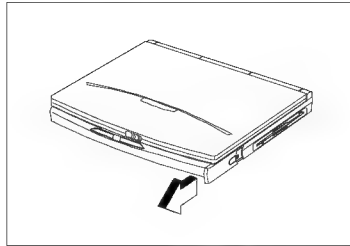
- 1 Battery compartment
- 2 Battery cover release latch
- 3 Internal diskette drive

Figure 1-5 Right Panel

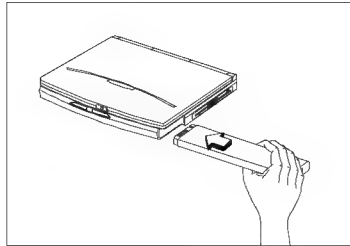
Right Panel Features

Battery Compartment

The battery compartment houses a nickel metal-hydride (NiMH) battery pack. Follow these steps to install the battery pack:



1. Press the battery cover release latch and slide the cover out.



2. Insert the battery pack into the battery compartment (with the connector-side up).
3. Replace the battery compartment cover.

Internal Diskette Drive

The notebook houses an internal 3.5-inch, 1.44MB diskette drive.



For smoother diskette drive operation, do not block the drive slot when pressing the slot button to eject a floppy disk.

1.7 AC Adapter

The AC adapter accepts input voltage ranging from 100V to 240V at a frequency range of 47Hz to 63Hz.



Figure 1-6 AC Adapter

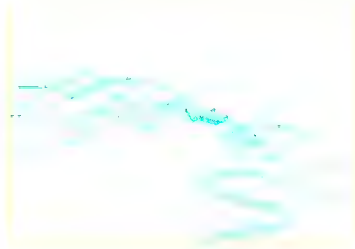
The AC adapter LED lights up when power is supplied to the AC adapter.



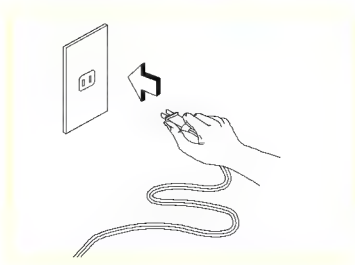
1. *Do not use the AC adapter or the battery pack with other notebooks or any other devices.*
2. *Do not use other AC adapters and battery packs not specifically designed for this system.*
3. *Unplug the AC adapter by pulling on the connector, not the cord. Pulling on the cord may damage the connections inside the connector.*

Connecting the AC Adapter

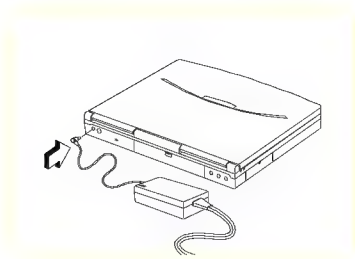
Follow these steps to connect the AC adapter:



1. Plug the power cord into the AC adapter.



2. Connect the power cord to a power outlet.



3. Connect the AC adapter to the notebook.

1.8 Starting the System

Figure 1-7 shows the location of the power on/off switch (). Press this toggle switch to turn the notebook on and off. The power indicator (a green LED found to the left of the power switch) lights up when you turn on the notebook.

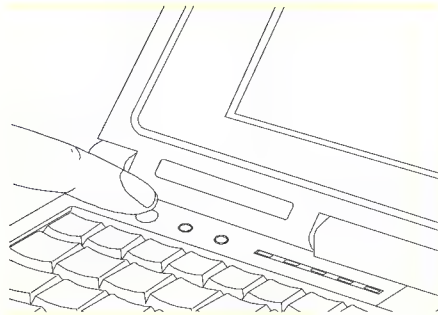


Figure 1-7 Turning On the Power

The notebook runs a series of power-on self-tests (POST) and displays POST messages. Next, copyright and other messages appear on the screen followed by the DOS prompt or Windows 95 loading if it is installed. If you get an error message or the DOS prompt does not appear, see Chapter 6 for assistance.



Avoid turning the notebook on and off in intervals of less than five seconds between power on and off, as this may damage your hard disk drive.

1.9 Interior Features

Figure 1-8 shows the location of the control buttons, status indicators and other interior features.

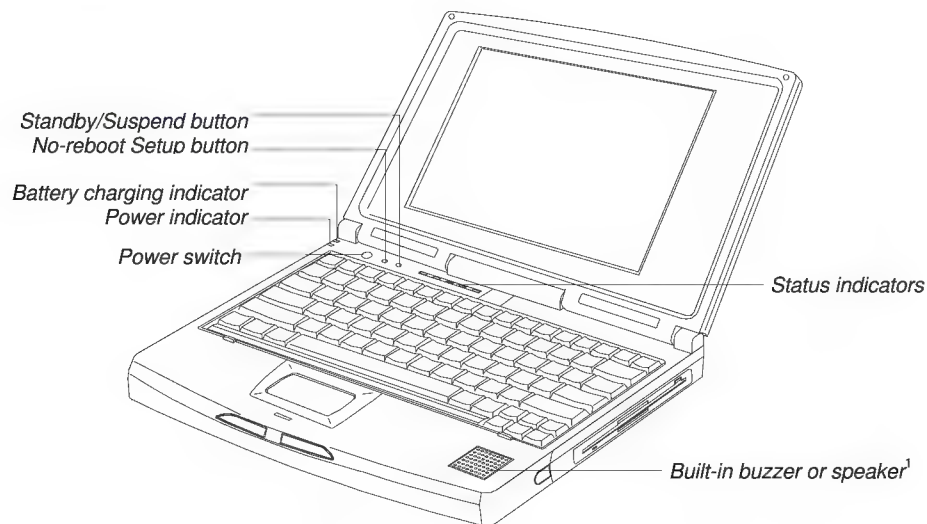


Figure 1-8 Interior Features

Control Buttons

-  **Power switch** This toggles the system power on and off.
-  **No-reboot Setup button** This enables you to access the Advanced Configuration screens of the Setup utility without rebooting.
-  **Standby/Suspend button** This enables the notebook to enter standby or suspend mode. See section 2.4 for details.

¹ A built-in speaker is present if the notebook is equipped with onboard audio; otherwise a buzzer is installed.

Status Indicators



Battery charging indicator It lights up when the battery is charging.



Power indicator This lights up when power is applied to the notebook, and flashes when the notebook is in a battery-low condition.



Standby mode indicator This lights up when the system is in standby mode.



Hard disk drive activity indicator This lights up when the system accesses the hard disk drive.



Num Lock indicator This lights up when the Num Lock function is activated.



Caps Lock indicator This lights up when the Caps Lock function is activated.



Scroll Lock indicator This lights up when the Scroll Lock function is activated.

1.10 Keyboard

The keyboard has full-sized keys, including an embedded keypad, separate cursor keys, twelve function keys and two Windows 95 keys.

Figure 1-9 Keyboard — U.S. Version

Figure 1-10 Keyboard — U.K. Version

Lock Keys

The keyboard has three lock keys which you can toggle on and off. When you activate a lock key, the corresponding LED lights up.

Table 1-2 Lock Key Descriptions

Key	Description
@	When the Caps Lock indicator is on, all alphabetic characters typed are in uppercase.
 [	When the Scroll Lock indicator is on, the screen moves one line up or down when you press w or y. It does not work with some applications.
 -	When the Num Lock indicator is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with arithmetic operators).

Hot Keys

Hot keys or key combinations allow you to perform special functions.

Table 1-3 Hot Key Descriptions

Key	Description
m	Setup Accesses Setup during POST (power-on self test).
	Hotkey Help Displays a list and description of all hot keys. Hotkey Help <Fn><F1> This help screen. <Fn><F2> Adjusts display controls. Toggle between brightness and contrast for STN LCD. Brightness control only for TFT LCD. <Fn><F3> Switches display to LCD, CRT or Both. (Some LCD displays do not support Both mode) <Fn><F5> (Optional) Adjusts audio volume control. Press <Fn><Left arrow> to decrease, <Fn><Right arrow> to increase, <Fn><Esc> to close. Press any key to exit hotkey help.

Table 1-3 Hot Key Descriptions (continued)

Key	Description
 -m	Contrast/Brightness Control Displays the LCD contrast/brightness control for STN models and LCD brightness control for TFT models.  Contrast  Brightness After pressing this key combination, press -X and -Z to increase and decrease the current setting. Press  - to close the pop-up. For STN models, press -m to toggle between the contrast and brightness controls.
 -n	Display Device Control Allows you to select LCD, CRT or both LCD and CRT as your display device.
 -p	Audio control Allows you to adjust the volume. When the notebook is not equipped with onboard audio, this function is disabled.  After pressing this key combination, press -X and -Z to increase and decrease the current setting. Press  - to close the pop-up. This feature functions only when the audio driver is installed and working properly. Changes in the audio mixer settings in Windows and Windows 95 may override this feature. For applications that implement their own volume controls, changes in volume levels by the application may also override this feature.

Windows 95 Keys

The keyboard has two Windows 95 keys that perform Windows 95 functions.

Table 1-4 Windows 95 Key Descriptions

Key	Description
Windows logo key	Start button. Combinations with this key performs special functions. Below are a few examples: • <i>Windows + Tab</i> Activate next Taskbar button • <i>Windows + E</i> Explore My Computer • <i>Windows + F</i> Find Document • <i>Windows + M</i> Minimize All • <i>Shift + Windows + M</i> Undo Minimize All • <i>Windows + R</i> Display Run dialog box
Application Key	Opens the application's context menu (same as right-click).

Embedded Keypad

The embedded keypad, which has functions similar to a desktop numeric keypad, is indicated by smaller characters located in the upper right corner of the keycaps. To simplify the keyboard legend, the cursor-control key symbols are not printed on the keys.

Figure 1-11 Embedded Keypad

Table 1-5 tells how to use the embedded keypad.

Table 1-5 Using the Embedded Keypad

Desired Access	Num Lock On	Num Lock Off
Number keys on embedded keypad	Type numbers in a normal manner.	
Cursor-control keys on embedded keypad	Hold j while using cursor-control keys.	Hold Fn while using cursor-control keys.
Main keyboard keys	Hold Fn while typing letters on embedded keypad.	Type the letters in a normal manner.



Connecting an external keyboard to the notebook disables the embedded keypad function.

Palm Rest

The palm rest, located below the keyboard, gives you a place to rest your hands while you type.

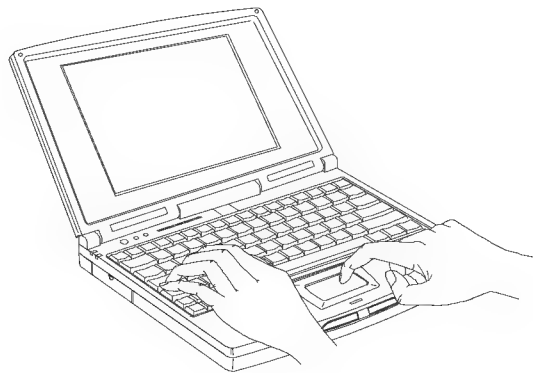


Figure 1-12 Palm Rest

1.11 Touchpad

The touchpad is a PS/2-type mouse-compatible pointing device that senses movement on its surface. This means the cursor responds as you move your finger on the surface of the touchpad. Its central location on the palm rest enables comfortable use for both left and right-hand users.

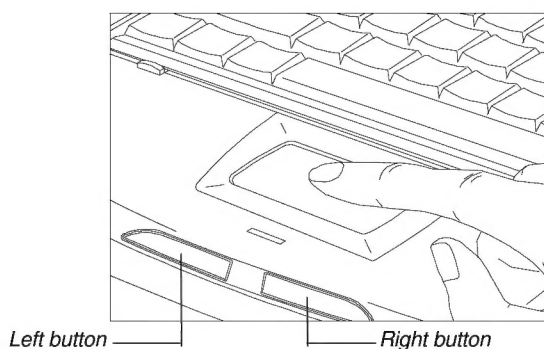


Figure 1-13 Touchpad



The touchpad works with most mouse drivers.

If your notebook did not come with pre-loaded software, remember to install the touchpad driver. The touchpad driver also supports special functions that work uniquely with the touchpad. See Appendix D for details.

Touchpad Basics

The following tips will help you use the touchpad:

1. Move your finger across the touchpad to move the cursor.
2. Press the left and right buttons below the touchpad to do selection and execution functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the touchpad produces similar results. See Table 1-6.

Table 1-6 Touchpad Functions

Function	Button (left)	Tap
Execution	click twice	tap twice
Selection	click once	tap once
Drag	click and hold to drag the cursor	tap twice and hold to drag the cursor



Keep your fingers dry and clean when using the touchpad. Also keep the touchpad dry and clean.

Keep your fingers clear of the touchpad when typing.

The touchpad is sensitive to finger movements. Hence, the lighter the touch, the better the response. Tapping too hard will not increase the touchpad's responsiveness.

Refer to Appendix D for details on the touchpad driver utility.

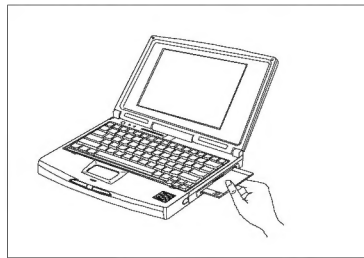
1.12 Using the Notebook for the First Time

Follow these steps when you use the notebook for the first time, to ensure top performance right from the start.

1. Install the battery pack into the notebook.
2. Connect the AC adapter. See section 1.7.
3. Power on the notebook and condition the battery pack. See section 2.3.2 for details.

When the battery is charging, the battery indicator turns orange. It turns off when the battery pack is fully charged.

4. Power on the system when the battery is fully charged. If your notebook has pre-installed software, go directly to item 6;



otherwise, insert MS-DOS diskette #1 into the diskette drive and boot up the system. Follow the instructions to install MS-DOS.

You may also want to install Windows or Windows 95 if your package includes it. Insert Windows diskette #1 into the diskette drive and type `A:\SETUP`. Follow the screen instructions to install Windows.

Refer to the Windows or Windows 95 user's manual for details.

5. Install the zero-volt suspend function.

Zero-Volt (Hibernation) Suspend-to-Disk

The Zero-Volt (Hibernation) Suspend-to-Disk function is a power-saving feature that saves all current status information and images on your hard disk when your notebook enters suspend mode.

If you want to use the zero-volt suspend function, you have to create a suspend-to-disk file on the hard disk by installing ASTDK for DOS and Windows 3.x or ASTDK for Windows 95. Refer to section D.1 for more details.



If you do not install ASTDK, the notebook can only enter standby mode and not suspend mode. Standby mode still consumes power whereas suspend mode consumes none. Data is also lost when power runs out when the notebook is in standby mode.

You can also install the other system utilities if they are not pre-installed on the system. See Appendix D for details.

6. If the notebook displays an error message or if you encounter any problems, see section 6.2 for corrective actions.
7. You may operate the system on AC or battery power. To conserve battery power, you can make use of the different power-saving modes described in sections 2.4.
8. Read through this manual so that you can get the most out of this powerful notebook PC!